

**Agency Activity Inventory**  
**by Agency**  
**Appropriation Period: FY 2007-08**

**Agency:** P20 - Clemson PSA

**Functional Group:** Economic  
Development &  
Natural Resources

**1474 Natural Resources and Environmental Research and Education: Master  
Wildlifer/Master Naturalist**

Conducts statewide Master Wildlifer programs to improve wetland and watershed management as a means of preserving water quality and wetland and aquatic wildlife habitat. Conducts statewide Master Naturalist programs to increase the public's understanding and awareness of natural resource management and to build a network of natural resource ambassadors. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$169,552	\$0	\$37,192	\$0	\$0	\$132,360	2.27

**Expected Results:**

Develop and deliver statewide Master Wildlifer short courses for forest and farm owners, and standardized training for Master Naturalists, S.C. Department of Natural Resources biologists and administrators, and other interested agencies. Explore alternative methods of delivering Master Wildlifer, primarily over satellite and as a web-based course. Develop local chapters and conduct S.C. Master Naturalist training programs.

**Outcome Measures:**

Develop and deliver education programs on Master Wildlifer and Master Naturalist for farm and forest land owners, county Extension agents and potential volunteers. Updated curriculums and changed equipment system for satellite delivery of programs in 2007-2008.

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**1475 Rural Community Enhancement and Improvement**

Engage in rural community enhancement and improvement activities that are linked to community image, sustainable economic development, and improved quality of life. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$534,436	\$0	\$185,781	\$0	\$0	\$348,655	11.00

**Expected Results:**

Develop and conduct community improvement programs, such as the S.C. Design Arts Partnership, a collaborative effort by Clemson University, the S.C. Downtown Development Association, and the S.C. Budget & Control Board that helps rural communities design improvements for economic revitalization. Engage citizens in agritourism and agribusiness development projects. Facilitate the work of local task forces and groups that formulate action plans and policies. Work with appropriate agencies to achieve information technology equity for rural areas.

**Outcome Measures:**

Develop and deliver education programs on community enhancement for citizens engaged in economic and tourism development, nonprofit organization boards and groups. Conduct research to provide data analyses and program assessment for rural development groups, particularly in the agribusiness sector. Program participants were 2,324.

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**1476 Government and Public Affairs Research and Education**

Conducts applied research and education in public policy areas to promote discussion and action on critical issues facing South Carolina, the Southeast, and the nation. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$100,024	\$0	\$32,428	\$0	\$0	\$67,596	2.00

**Expected Results:**

Distribute information on issues affecting South Carolina today and those that will be important in the future via the Jim Self Center on the Future web site. Present information on educational finance and operational policy to appropriate state and local leaders to enhance the public debate. Expand the civic discussion in South Carolina and increase public participation in governmental operations through partnerships and training sessions.

**Outcome Measures:**

Develop and deliver education programs to community, business, and citizen organizations on research developed at the Thurmond Institute. Specific applications include the costs of growth, fiscal analyses, regional cost/benefit analyses, state issues analyses, and the impact of higher education on the state's economic well-being. 4 Research reports have been produced for use in comprehensive, thoughtful tax reform.

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**1477 Agricultural Education Teachers' Salaries (pass-thru)**

Provide statewide leadership for agricultural education programs in the public schools for South Carolina. Agricultural Education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. The program provides Future Farmers of America (FFA) and adult education activities, such as leadership development, work experiences, internship and job training. Proviso 72.42 of the FY 2008 Appropriations Act authorizes Clemson-PSA to transfer these funds to the Department of Education for Agriculture Education teacher salary adjustments.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$800,011	\$405,599	\$0	\$0	\$0	\$394,412	0.00

**Expected Results:**

Coordinate and structure agricultural education programs, Future Farmers of America (FFA), and the S.C. Association of Young Farmers activities in the state's public schools.

**Outcome Measures:**

Agricultural education programs will be conducted in South Carolina high schools. Other measures will include participation in FFA and SCYFAA activities, PACT score improvement, job placement and pursuit of higher education.

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**1478 Administration**

Administration for Clemson University-PSA is an aspect of our organization that is constantly monitored for indications of its efficiencies and effectiveness. Our organizational functions are statewide and highly diversified to meet the requirements of research and Extension. Our research facilities are in numerous locations on-campus and across the state. Additionally, much of our administrative functions are focused on generating outside research funding. The regulatory functions of PSA require very precise management of records and documents for federal and state regulations. These functions are in addition to the traditional administrative functions of account management, clerical support, building maintenance, utilities and communication costs, auditing, and accountability. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend

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federal funds provided to the state's land-grant colleges.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$4,883,853	\$4,273,615	\$467,732	\$0	\$0	\$142,506	34.00

**Expected Results:**

The administration functions of our division are expected to give our organization: An adequate and safe work environment to carry out state-of-the-art research, development and information dissemination; Support for all state, federal and university mandated compliance regulations for animals, plants and human research; A fully compliant financial audit for federal, state or institutional requirements.

**Outcome Measures:**

Increase the rate of return on state dollars from outside funding sources for research and outreach activities. Increase the effectiveness and efficiency of all functions of PSA. Reduce or eliminate financial audit findings not in compliance with federal, state or institution regulations. Reduce or eliminate audit findings not in compliance with federal, state or institution regulations for research on animals, plants and humans. Obtain and record all relevant data in support of regulatory activities across the state to ensure a safe and adequate food and water supply and address environmental issues.

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**1479 Distance Education: Radio Productions**

Delivers information on Clemson research and education programs to targeted and mass audiences. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$114,360	\$71,477	\$0	\$0	\$0	\$42,883	2.00

**Expected Results:**

Produce radio programs and a supporting web site to deliver research and education information.

**Outcome Measures:**

Reach an average of 20,000 listeners through public radio programs.

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**1480 Distance Education: Television, Web and Print Productions**

Delivers information on Clemson research and education programs to targeted and mass audiences. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$1,705,637	\$1,282,164	\$329,147	\$0	\$0	\$94,326	30.47

**Expected Results:**

Produce television programs and web sites to deliver research and education information; produce supporting print materials as needed.

**Outcome Measures:**

Create efficiencies in communication and education by using mass media outlets. Support the federal eXtension initiative.

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**1481 BioEngineering Alliance**

The S.C. Bioengineering Alliance is a state-mandated collaborative effort among Clemson University, the University of South Carolina, and the Medical University of South Carolina to promote, strengthen, and develop biomedical engineering education, research, and technology transfer across the state to advance basic biomedical research and medical care, enhance bioengineering research and education at the participating universities, and support the regional economy. The Bioengineering Alliance was established as a separate program within Clemson PSA by the FY 1990 - 1991 General Appropriations Act.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$111,719	\$111,719	\$0	\$0	\$0	\$0	1.05

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**Expected Results:**

Foster communication among organizations and academic disciplines to identify and pursue opportunities for collaborative research, education, and technology transfer. Develop programs that share facilities, equipment, and expertise across the state to advance healthcare, particularly in tissue engineering and regenerative medicine.

**Outcome Measures:**

A charter and strategic plan have been approved. A statewide summit was convened with more than 200 participants to chart the course of bioengineering as a statewide initiative and to identify high-priority opportunities for multidisciplinary biomedical research and development. Research collaborations were developed among scientists in 10 departments at MUSC, Clemson and USC, and proposals were submitted to support these collaborative efforts. Several new procedures, approaches, and biomedical devices resulting from statewide collaborations facilitated by the Alliance were developed and produced patents, publications, and journal articles that will expand knowledge in bioengineering.

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**1482 Sustainable Agricultural Production Systems: Horticultural Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of horticultural crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$5,121,500	\$3,629,676	\$991,424	\$0	\$0	\$500,400	55.04

**Expected Results:**

Conduct research and education programs to: Improve profitability of horticultural cropping systems, Reduce negative environmental impacts of horticultural cropping systems, and Encourage producers to adopt new horticultural production systems.

**Outcome Measures:**

Develop and deliver education programs on horticultural crop production for agricultural producers and Extension personnel. Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications. Programs were delivered to 5,661 participants. 1 patent disclosure was submitted. Research is ongoing to improve disease management practices, evaluate plant reaction to drought and heat stress, reduce pesticide usage in greenhouses, evaluate turfgrass growth regulators, increase crop production in high-demand seasons, and produce high-potency medicinal herb varieties.

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**1483 The South Carolina Institute for Energy Studies**

The South Carolina Institute for Energy Studies (SCIES) is a state chartered research and development organization established in 1984 via the FY 1984 - 1985 General Appropriations Act. SCIES is administratively housed at Clemson University, reporting to the Vice President for Research.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$92,315	\$92,315	\$0	\$0	\$0	\$0	2.05

**Expected Results:**

Through interaction with all departments at Clemson University, all universities within South Carolina, state agencies, federal agencies, and private industry throughout the nation: Promote energy research and development in and for the state; Transfer energy technology developed by others to South Carolina applications; Contribute to national energy issues in areas of excellence; Promote state-wide energy education activities.

**Outcome Measures:**

SCIES conducts application oriented research projects to develop South Carolina's indigenous energy resources, economic development and short-term payout. The Institute is focused on developing the biofuels and bioenergy industry in the state. Efforts continue to promote the development of offshore and coastal wind power. SCIES continues to generate research contracts through the University Turbine Systems Research program, funded by the U.S. DOE that has generated nearly \$60 million in research funds over the past years. The national research network of 111 universities and 17 U.S. member corporations places SCIES/Clemson University in a leadership role in land-based gas turbine development. SCIES supports the statewide effort to create a hydrogen-based industry through efforts to build a 'Fueling Station of the Future' at CU-IUCAR. SCIES chairs the S.C. Biomass Council, serves on a sub-committee of the S.C. Climate Change Commission, and represents Clemson at the S.C. Hydrogen and Fuel Cell Alliance.

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**1484 Rural Community Leadership Development**

Conducts Palmetto Leadership training that provides community leadership development training, facilitates strategic planning for economic development, public issues education, youth leadership, and serves as a collaborative agency with other

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leadership program sponsors. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$533,913	\$332,520	\$129,081	\$0	\$0	\$72,312	8.00

**Expected Results:**

Develop and deliver education programs on leadership, team-building, strategic planning, and effective operations for civic and community leaders and nonprofit organizations. Promote participation in collaborative task forces to build leadership skills to address statewide economic and community development issues. Conduct youth leadership programs and workshops to enhance leadership, communication, team building, and citizenship skills. Conduct training in natural resources needs and urbanization patterns for civic and community leaders.

**Outcome Measures:**

Develop and deliver education programs on leadership for municipal and community leaders, particularly in addressing natural resource needs, population growth, and urbanization patterns. Recruit participating individuals, groups and agencies to collaborate to address statewide economic and community development issues, particularly in agribusiness. Encourage participating groups and agencies to raise local funding to support these programs. There were 7,040 attendees in 326 classes and programs.

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**1485 Natural Resources and Environmental Research and Education: Recreation and Tourism**

Conducts statewide education programs to promote environmentally sound natural resource recreation and tourism opportunities in South Carolina. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$151,506	\$67,992	\$77,994	\$0	\$0	\$5,520	2.20

**Expected Results:**

Develop and deliver educational programming on the interaction of water quality and recreation and tourism activities. Provide additional training to nature-based tourism professionals to ensure that the content and delivery of their education programs is accurate and of high quality.



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**Outcome Measures:**

Develop and deliver educational programs on the nature-based tourism industry for recreation and tourism operators, Extension county agents, government officials, land management, agency personnel, and citizens. Research is on going on agro-tourism, 2 new researchers began tourism studies and there were 150 participants in educational programs.

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**1486 Natural Resources and Environmental Research and Education: Alternative Income Opportunities for Landowners**

Conducts statewide education programs to assist landowners in developing alternative income sources from natural resources, with a focus on wildlife resources. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$61,983	\$35,912	\$13,941	\$0	\$0	\$12,130	2.00

**Expected Results:**

Develop and deliver educational programs for farm and forest landowners, Extension agents, and natural resource professionals on alternative income opportunities from natural resources, with an emphasis on wildlife resources. Continue development of the Pee Dee Research & Education Center as a demonstration site for integrated farm, forest and wildlife management illustrating both management and income opportunities from wildlife.

**Outcome Measures:**

Develop and deliver education programs on alternative income opportunities for farm and forest landowners, Extension agents, and natural resource professionals. Develop an economic tool for landowners to support alternative income opportunities. 28 educational programs were delivered to 733 participants.

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**1487 Natural Resources and Environmental Research and Education: Water Quality and Quantity**

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Conducts statewide research and education programs to address the impacts of land use on water quality and quantity, and to promote Best Management Practices for homeowners, farmers, landowners, municipal officials, volunteers, and youth. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$2,252,863	\$1,644,116	\$398,315	\$0	\$0	\$210,432	21.85

**Expected Results:**

Conduct research to develop best management practices that reduce pollution, erosion, and stormwater run-off, and thereby improve water quality. Conduct education programs to train municipal officials, watershed coordinators, project managers, consultants, contractors, and citizens in these practices. Stormwater management programs include Nonpoint Education for Municipal Officials and Carolina Clear. Conduct research to understand the chemical, biological and physical dynamics of lakes and streams. Conduct research related to understanding economic, socio-cultural and ecosystem dynamics of watersheds. Undertake initiatives to study policy and political issues that affect lakes, rivers, streams and aquatic systems across South Carolina and the Southeast.

**Outcome Measures:**

Develop and deliver education programs on water quality for municipal officials, communities, contractors, homeowners, farmers, landowners, and youth. Conduct a statewide Water Resources Conference for universities, state and federal agencies, nongovernmental organizations, and the public. Develop a statewide focus on watershed management as the EPA-DHEC designated Watershed Center of Excellence. Share research discoveries of new products, policies and procedures through disclosures, patents, licenses, and publications. 6,694 participants in 212 classes and programs were served. Research is on going in storm water best management practices, changing land-use on stream health and contamination of surface waters.

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**1488 Natural Resources and Environmental Research and Education**

Conducts statewide research to protect and enhance the wildlife, soil and natural resources in South Carolina. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$2,135,605	\$1,492,696	\$528,396	\$0	\$0	\$114,513	26.10

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**Expected Results:**

Conduct research to: Develop agriculture and forestry practices that protect wildlife and the environment, and reduce forest fuel loads; Develop techniques for managing forest drainage systems; Determine the toxicity of metals and pesticides to aquatic animals and the impacts of non-point source pollution on wildlife; Develop sensors, tools and methodologies for soil, pest and water management to enhance environmental sustainability.

**Outcome Measures:**

Share research discoveries of new products, policies and procedures. Presented training to 5,026 participants in 309 classes. 1 patent application has been submitted.

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**1489 Sustainable Agricultural Production Systems: Nutraceutical Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of nutraceutical crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$557,792	\$449,983	\$63,416	\$0	\$0	\$44,393	5.73

**Expected Results:**

Conduct research and education programs to develop crop management and harvesting techniques that improve the production efficiency and profitability of nutraceutical crops.

**Outcome Measures:**

Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications. 1 patent disclosure and 1 license application have been submitted. The patent item is a new container using environmentally friendly fibrous plants such as kenaf, flax and cotton. These composites use no petroleum, take less energy to produce, are derived from renewable resources and are 100 percent biodegradable and recyclable.

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**1490 Sustainable Agricultural Production Systems: Organic Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of organic crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$258,893	\$150,000	\$58,229	\$0	\$0	\$50,664	1.50

**Expected Results:**

Conduct research and education programs to: Develop crop management information about the promising niche market of organic farming; Disseminate information on organic farming systems to current growers and growers interested in adopting organic practices.

**Outcome Measures:**

Develop and deliver education programs on organic crop production systems to enhance the use of organic farming systems. Share research discoveries of new agricultural products, policies and procedures. 706 participants were in 55 classes.

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**1491 Reducing the Impact of Animal Agriculture on the Environment**

Clemson PSA is the sole source for providing training as required by law for all livestock and poultry producers to receive their waste permit. This program reduces the environmental impact of animal waste through statewide research and education programs for animal agriculture producers. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$463,370	\$323,135	\$99,565	\$0	\$0	\$40,670	4.40

**Expected Results:**

Develop and demonstrate new, cost-effective technologies and practices to reduce the environmental impacts of animal agriculture. Develop and deliver education programs to train and certify animal facility operators and to educate livestock producers on environmentally sound manure treatment, storage and utilization systems, and methods to reduce sediment loading of streams from pastures, holding areas, and land application sites. (Confined

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Animal Manure Management)

**Outcome Measures:**

Develop and deliver education programs to certify newly permitted confined-livestock and poultry producers and to provide annual re-certification training for all permit holders, as required by state law. 39 programs reached 1197 participants. 34 livestock operations have implemented best management practices to reduce fecal Coli form levels in nearby water. 2 patent applications have been submitted.

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**1492 Agro Medicine (pass-thru)**

The S C Agromedicine Program is a cooperative effort between the Medical University of SC (MUSC) and Clemson's Cooperative Extension Service. It provides: 1) Education to physicians, nurses & other health care workers who serve the farming community about farm-related health issues (e.g. pesticide poisoning, insect/spider bites, fire ant sting reactions, noise-induced hearing loss, etc.); 2) Education to pest-control operators, mosquito abatement officials & other agriculture workers regarding health effects of pesticides, risk & personal protection; 3) Education to lay and professional groups regarding food quality / food safety and farm safety issues; 4) Research on farm-related health issues; and 5) Services such as telephone consultations to physicians, the Cooperative Extension Service and individual patients on farm-related health issues. Agromedicine was established as a separate program within Clemson-PSA by the FY 1986-1987 Appropriations Act. Funds appropriated to PSA for Agromedicine are transferred to MUSC annually under a contractual agreement.

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\$235,722	\$235,722	\$0	\$0	\$0	\$0	0.00

**Expected Results:**

Provide teaching, research and service in the area of agromedicine to improve the diagnosis and treatment of agriculture-related health problems, the accuracy of the public's perceptions of food quality and safety and pesticide health effects, and the overall safety and health of the farm population.

**Outcome Measures:**

Provided more than 200 consultations in 2006-7 for health care professionals and the public, based on referrals from Clemson Extension and Regulatory Service personnel, for pesticides in agriculture and the home, arthropod and spider bites and stings, food safety and water quality. Made 27 presentations to physicians, farmers and consumers on multiple topics (most frequently avian influenza and insect sting reactions) during the past year. Collect and publish data on tick-borne diseases, fire ant stings and serious spider bites reported to primary care physicians in SC and emergency room visits and hospitalizations for pesticide poisoning in the state. Continue to maintain and utilize a specialized reference library, journal library and a computerized literature data base to support consultations.

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**1493 Agricultural Biosecurity**

The lead agency in South Carolina to provide coordination of statewide surveillance for naturally occurring and introduced diseases and pests of agricultural plants and animals under Homeland Security Presidential Directives 8, 9 and 10. In addition, education programs are developed and implemented for disaster preparedness, prevention, and mitigation for livestock and other animals, whether those disasters are natural or man-made. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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\$543,027	\$438,076	\$93,715	\$0	\$0	\$11,236	5.00

**Expected Results:**

Improve local, state, and regional capabilities to detect, recognize, diagnose, and prevent agroterrorism and threats to food production agriculture by foreign animal diseases, foreign plant diseases, or other disasters that threaten agriculture or food safety.

**Outcome Measures:**

Develop / deliver education programs for farmers, county & state emergency response personnel and county Extension agents focusing on agricultural biosecurity, including agroterrorism prevention, mitigation, response and recovery. Collaborate with other state agencies to develop alert systems & response plans for exotic plant/animal diseases. Conduct research on biosecurity issues. Provide educational information for county and state officials through training exercises and through publications such as articles, fact sheets, bulletins and newsletters. Deliver information to an average of 20,000 listeners through public radio programs. A three day, Agroterrorism Awareness course has been offered twice, a Foreign Animal Disease (FAD) has been offered twice, a Plant First Detector course has been offered twice, Incident Command System, 100, 200, and 300 has been offered twice, along with NIMS 700. NIMS stands for National Incident Management System, and all agencies were to become compliant by January 2007. Global positioning GIS & GPS courses I, II, and III, have been conducted three times. Recently a "Foot and Mouth Tabletop Exercise" was conducted with 95 state officials and industry personnel.

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**Functional Group:** Economic  
Development &  
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**1494 Environmental Horticulture Education**

Conducts statewide research and education programs to increase the use of environmentally sound horticultural practices and to protect the quality of the state's soil, air, and water. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$642,902	\$0	\$183,361	\$0	\$0	\$459,541	10.62

**Expected Results:**

Conduct research and education programs to inform horticulture professionals, master gardeners, and consumers on environmentally sound horticultural practices.

**Outcome Measures:**

Develop and deliver information on environmentally sound horticultural practices for consumers and horticulture professionals via education programs, horticulture centers, Master Gardener programs and telephone information, and the Home & Garden Information Center toll-free telephone line. In addition, deliver information through public radio and television programs and through the HGIC web site (more than 7 million visits annually). Trained 648 new Master Gardeners and provided 21,108 hours of volunteer service by Master Gardeners.

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**Functional Group:** Economic  
Development &  
Natural Resources

**1495 Agricultural Biotechnology**

Conducts biotechnology research and shares research findings for commercial development through patents and licenses to build the knowledge-based economy. Mass-produces genetic reference libraries for research using high-end robots, sequencers, and physical mapping equipment. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$4,283,763	\$3,149,926	\$491,468	\$0	\$0	\$642,369	26.54

**Expected Results:**

Discover and apply significant biotechnology products and processes to improve agriculture, the environment, and human health. Patent and license research discoveries for commercial application to build the knowledge-based economy in South Carolina. Collaborate with SC Bio and the Department of Commerce to recruit biotech companies and assist with new company start-ups.

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**Outcome Measures:**

Discoveries in biotechnology products and processes will be disclosed through research publications and patents, and will be available for commercial application through license agreements. New employment opportunities will be created through biotechnology business recruitment and new company start-ups. Research has resulted in 2 patent disclosures and 2 patent applications, development of 4000 new peach clones, and establishment of 4 test facilities to create technology to capture nitrogen and phosphorus from agricultural surface water as high value aquatic biomass.

**Agency:** P20 - Clemson PSA

**Functional Group:** Economic  
Development &  
Natural Resources

**1496 Risk Management Systems for Agricultural Firms**

Provides statewide economic analyses of agricultural enterprises and technologies and education programs to assist farm managers in developing viable business systems. In addition, risk management research is conducted and information is disseminated to agricultural managers. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$1,581,249	\$914,694	\$375,075	\$0	\$0	\$291,480	22.00

**Expected Results:**

Conduct statewide research and education programs on agricultural market assessment and appropriate marketing strategies for agricultural commodities in South Carolina.

**Outcome Measures:**

Develop and deliver education programs on risk management for farm and agribusiness managers. Extension programs reached 494 growers.

**Agency:** P20 - Clemson PSA

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Development &  
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**1497 Integrated Pest Management (IPM) for Agriculture and Forestry**

Conducts statewide research and education programs to identify alternative pest control strategies for field crops and



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landscape/ornamental plants and to reduce dependence on the use of agricultural chemicals by increasing the use of biological controls. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$1,521,246	\$1,044,453	\$303,341	\$0	\$0	\$173,452	17.01

**Expected Results:**

Agricultural producers and producers of landscape and ornamental plants in South Carolina will adopt and utilize integrated pest management (IPM) practices that will reduce the number of pesticides and increase the value of South Carolina's agricultural products.

**Outcome Measures:**

Conduct statewide research and deliver education programs on integrated pest management for agricultural producers and forest landowners. Survey data indicates that 58-71% of cotton growers in SC followed IPM practices; these practices had positive net returns on cotton production averaging \$57.85 per acre. In the indicator county in SC for collard production, 90% overall reduction in insecticide usage was achieved in 06-07 by implementing IPM practices.

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**1498 Sustainable Forestry Management and Environmental Enhancement**

Conducts statewide research and education programs to develop and demonstrate new methods in ecologically and economically sustainable forest and wildlife management, particularly in restoring forest ecosystems and habitats for endangered species, and developing alternative income sources for landowners. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$2,682,717	\$1,912,406	\$494,213	\$0	\$0	\$276,098	26.52

**Expected Results:**

Research programs will develop new management practices that promote sustainable use and management of forest resources. Research will include an education component, such as training or demonstrations of new techniques, particularly for industrial and government foresters. Education programs will encourage landowners to adopt and use practices developed through research.

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**Outcome Measures:**

Develop new forest management practices that expand and enhance sustainable forestry practices. Install demonstrations of these techniques for use in educational programs. Through these programs, increase the number of acres of forests in South Carolina using sustainable forestry practices, increase biodiversity in the state, restore longleaf and bottomland hardwood ecosystems, and facilitate the conservation of ecosystems. Extension training programs reached 2,011 landowners. Long-term research is ongoing on the impact to coastal plains forestry land that is being converted to industrial, commercial and residential uses; managing vegetation growth with fire when urban sprawl complicates prescribed burning; improving cash flow from wildlife-related timber management; investigating the impact of hurricanes on native forests, and developing forest management practices to protect habitats for endangered species.

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Development &  
Natural Resources

**1499 Natural Resources and Environmental Research and Education: Nuisance Species**

Conducts statewide research and education programs to effectively address and minimize problems with nuisance species that cause significant economic, health and human safety concerns in South Carolina. These species include invasive plants, such as beach vitex and giant salvinia, which compromise water quality and negatively impact revenues from tourism, shipping, fishing, forestry and other industries. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$139,850	\$89,895	\$28,102	\$0	\$0	\$21,853	2.00

**Expected Results:**

Develop and deliver education programs for landowners, homeowners, natural resource professionals, and county Extension agents on controlling nuisance species such as beach vitex and giant salvinia, which compromise water quality and negatively impact the coastal environment.

**Outcome Measures:**

Develop and deliver education programs on nuisance species for landowners, homeowners, natural resource professionals and Extension agents. Extension programs reached 1,615 participants.

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Natural Resources

**1500 Rural Community Public Issues Education**

Conducts education programs on public issues management and certifies facilitators to lead local efforts. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$118,742	\$0	\$95,505	\$0	\$0	\$23,237	3.59

**Expected Results:**

Develop and deliver education programs on facilitation skills and best practices of conflict resolution for use in public meetings and public forums (Public Issues Management School). Partner with state agencies and private interest groups to offer training in facilitation, negotiation, conflict resolution and management, and mediation. Prepare educational materials for the public (print, video, television, and radio) to promote understanding of public issues.

**Outcome Measures:**

Develop and deliver education programs on public issues for state, federal, and local agency personnel, association members, and citizens. Continue research on the agribusiness cluster. Provide data on land-use change and shifting competitiveness of agriculture as a rural economic underpinning. Programs were presented to 1,211 participants.

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Development &  
Natural Resources

**1501 Natural Resources and Environmental Research and Education: Coastal Natural Hazards**

Conducts statewide research and education programs to protect the state's coastal residents from natural disasters, including hurricanes, wind, water and earthquakes. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$0	\$0	\$0	\$0	\$0	\$0	0.00

**Expected Results:**

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Develop and evaluate innovative construction techniques to enable residential and low rise commercial structures to better withstand a variety of coastal hazards, including wind, water and earthquake. Develop and deliver education programs on coastal storm planning and preparedness, and hazard resistant coastal construction techniques.

**Outcome Measures:**

No activity in FY 07-08

**EXPLANATION:**

No activity planned in FY 07-08

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**Functional Group:** Economic  
Development &  
Natural Resources

**1502 Rural Community Economic Development**

Conducts statewide programs to enhance economic development through workforce analysis, business development strategies and policy formation, and surveys to enhance workforce preparedness and business retention efforts. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2007-08						
Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$1,863,218	\$1,178,566	\$650,902	\$0	\$0	\$33,750	23.14

**Expected Results:**

Conduct county-based programs annually to increase business retention and expansion and workforce preparation, focusing on the least-developed counties. Convey community and regional economic impact assessment data to business leaders and economic development organizations. Provide county and municipal leaders with socio-economic trend and pattern data to support local economic development strategic planning efforts.

**Outcome Measures:**

Develop and deliver education programs on business retention and enhancement for business and workforce preparation agencies. Conduct research to expand economic development opportunities in rural communities, particularly in agribusiness, the life sciences, and the knowledge-based economy. 1,421 participants attended programs to enhance rural economic development. Research is ongoing to evaluate new technology-based methods for producing and marketing local products, to support development of local business start-ups, and to evaluate public investment in broadband access and its impact on rural economic success.

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Natural Resources

**1503 Livestock-Poultry Health Programs: Meat Inspection**

Inspects and tests meat and poultry processing operations in South Carolina to ensure the safety of the state's food products of animal origin. Sections 47-4-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to perform these duties as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$2,855,248	\$1,387,624	\$1,387,624	\$0	\$0	\$80,000	42.08

**Expected Results:**

Develop and present a comprehensive training course for all inspection personnel to ensure as safe a meat supply as possible in South Carolina. Develop and maintain the Food Emergency Notification System, a database of S.C. government agencies and private industry.

**Outcome Measures:**

Provide inspectors the technical framework to review the Hazard Analysis and Critical Control Point (HACCP) system of official establishments to determine if they are in compliance with Title 9, Code of Federal Regulations, Part 417, HACCP Systems and require corrective action for deficiencies. Work in collaboration with the S.C. Emergency Management Division to notify state agencies and industry of food recalls, using the Food Emergency Notification System database.

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Development &  
Natural Resources

**1504 Livestock-Poultry Health Programs: Animal Health and Diagnostic Laboratory**

Provides statewide surveillance for diseases that affect both humans and other animals, and provides the diagnostic expertise to support control and eradication of disease of domestic animals. Provides veterinary diagnostic laboratory facilities and expertise to assist state veterinarians in diagnosing diseases found in companion and food animals, as well as in wildlife. Serves as the primary agency for ESF-17 in the State Emergency Operations Plan; provide multi-agency coordination of statewide animal emergency response plans to protect livestock and wildlife, and to support public health and safety. Sections 47-4-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to perform these duties as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$1,769,332	\$1,519,966	\$0	\$100,000	\$0	\$149,366	37.25

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**Expected Results:**

Ensure the safety and health of humans and other animals in South Carolina. Maintain the state's disease-free status by the U.S. Department of Agriculture (USDA) for cattle brucellosis, swine brucellosis, classical swine fever, pseudo-rabies, tuberculosis, and pullorum-typhoid. Implement the National Animal Identification System (NAIS) for traceability of disease outbreaks. Maintain a full-time staff of employees who are trained and demonstrate proficiency in specific tests certified by USDA laboratories. Maintain adequate funding, professional and technical staff, facilities and information resources to meet accreditation standards by the American Association of Veterinary Laboratory Diagnosticians (AAVLD). Coordinate the Animal Emergency Response with the County Animal Response Teams (CART), Extension Service, and multi-state agencies.

**Outcome Measures:**

Monitor livestock/poultry health in state to meet requirement of maintaining certified free status in appropriate disease areas. Monitor and enforce livestock/poultry interstate movement/commerce requirements. Register premises to enhance disease investigation and tracking of animal movement. Pass the AAVLD Accreditation Review. Pass proficiency testing certifications. Develop regional County Animal Response Teams (CART). Conduct a statewide exercise with the USDA, DHEC, and SCEMD to deploy the National Veterinary Stockpile (NVS) in response to Avian Influenza.

**Agency:** P20 - Clemson PSA**Functional Group:** Economic  
Development &  
Natural Resources**1505 Regulatory and Public Service Programs: Plant and Seed Certification**

Carries out statewide mandated programs for plant and seed certification ensure the quality of fertilizer and lime; the prevention and control of introduced plant pests and pests of honey bees; certification of seed purity/germination; certification for organically produced plants; and certification of freedom from plant pests in nursery, greenhouse and transplants. These mandated services also administer quality assurance/identity preservation for transgenic crops. Since September 11th, the mandate also includes Homeland Security. Our mission is to prevent, mitigate, and respond to agroterrorism. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$1,178,624	\$972,931	\$27,432	\$0	\$0	\$178,261	31.33

**Expected Results:**

Through statewide educational enforcement of legislative mandates: Fertilizer and lime will be of a higher quality. Fewer or mitigated introductions of invasive plant pests will occur. Nursery and greenhouses will sell plants with fewer insects or disease pests. There will be less likelihood of agroterrorism. Administration of genetic and quality standards for certification of seed and vegetative propagated materials will ensure less chance of cross contamination. Inspection and certification of plant industry products will allow national and global sales and will support the organic produce industry. Homeland Security will be enhanced through regulation of the sale of

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fertilizer to reduce the likelihood of its misuse by terrorists.

**Outcome Measures:**

Inspect and certify seed for purity to maintain a minimum of 95% of all seed lots inspected meeting S.C. Certification Standards. Certify plant commodities for shipment by responding to phytosanitary requests within a one week timeframe and maintain an acceptance rate above 94%. Certify freedom from plant pests in commercial greenhouses, nurseries, dealers, and turf/sod farms by conducting one inspection annually of each licensed dealer. Prevent and mitigate invasive species, concentrating on sudden oak death, peach fruit fly, benghal dayflower, sirex-wood-boring wasp, cogon grass, and tropical soda apple. Sample fertilizer and enforce statute to maintain deficiency rate of less than 20%. Reduce the threat of agroterrorism through regulatory efforts.

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Development &  
Natural Resources

**1506 Boll Weevil Eradication Programs (pass-thru)**

Mandated service to administer boll weevil eradication program. Boll weevil eradication program established by Section 46-10--10 et seq. of the SC Code of Laws.

FY 2007-08						
Total	General Funds	Federal Funds	Supp. Funds	CRF	Other Funds	FTEs
\$134,974	\$134,974	\$0	\$0	\$0	\$0	0.00

**Expected Results:**

Fewer or mitigated boll weevil infestations will occur.

**Outcome Measures:**

Prevent and mitigate boll weevil infestations. The reduction in boll weevil infestations will reduce toxicity and frequency of pesticide applications to cotton.

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Development &  
Natural Resources

**1507 Regulatory and Public Service Programs: Pesticide Regulation**

Carries out statewide mandated programs for pesticide regulation ensure safe and legal use of pesticides and administer

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pesticide container recycling programs. Since September 11th, the mandate also includes Homeland Security. Our mission is to prevent, mitigate, and respond to agroterrorism. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$2,844,451	\$234,175	\$610,276	\$0	\$0	\$2,000,000	38.09

**Expected Results:**

Through statewide educational enforcement of legislative mandates: Pesticide exposure and misuse will be reduced. Groundwater contamination from pesticides will be reduced. S.C. structures will be better protected from insect attack. Homeland Security will be enhanced through regulation of the use of pesticides to reduce the likelihood of misuse by terrorists.

**Outcome Measures:**

Reduce S.C. pesticide misuse by making over 2,000 inspections to ensure safe pesticide use and structural pest control compliance with pesticide labels, and state and federal law. Reduce the threat of agroterrorism through regulatory efforts.

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Development &  
Natural Resources

**1508 4-H and Agricultural & Natural Resource Programs for Youth**

Conducts statewide 4-H and research-based agriculture and natural resources education for youth. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$7,960,082	\$4,703,925	\$1,123,909	\$0	\$0	\$2,132,248	135.92

**Expected Results:**

Develop and deliver 4-H and other programs to educate families and youth across the state, particularly in the areas of agriculture and natural resources, leadership, service learning, financial and other resource management.

**Outcome Measures:**

Develop and deliver education programs for youth and their families, with help from a statewide network of trained volunteers. 26,319 individuals participated in youth and educational programs conducted by Clemson. Clemson trained 1,527 volunteers who worked with an additional 15,944 youth.



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**1509 Food Safety and Nutrition**

Conducts statewide research and education programs for farmers, food-handling employees, and consumers to ensure the safety and enhance the nutritional value of agricultural food products. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$5,925,045	\$4,017,396	\$1,828,153	\$0	\$0	\$79,496	67.00

**Expected Results:**

Conduct research and education programs to identify practices to minimize the risk of pesticide residue caused by improper handling of agricultural products and of food-borne illness outbreaks caused by improper handling of food. Develop and deliver educational information and programs on safe food-handling practices to minimize the number of food-borne illness outbreaks. These programs are for food processors and for food service facilities, such as schools, daycare facilities, soup kitchens, and restaurants (Serv-Safe). Develop and deliver educational programs for consumers to help them develop healthy food choices and skills in selecting, purchasing, and preparing foods to reduce the prevalence of obesity and improve healthy lifestyles through EFNEP, the Expanded Food and Nutrition Education Program, and other Extension programs.

**Outcome Measures:**

Develop and deliver education programs on safe food-handling practices and healthful food choices for consumers, agricultural producers, commercial food handlers, processing and packing industry employees. Research on antimicrobial films to help the meat industry reduce contamination by Listeria and associated health risks is on-going. EFNEP Nutrition Educator Assistants (NEAs) conducted 3,825 educational programs in nutrition and health reaching 13,377 adults and 4,033 educational programs in nutrition and health reaching 57,876 children and youth. Food safety and nutrition educators conducted 727 educational programs for the general public in the area of food safety and nutrition reaching 4,085 people. In addition, information will be delivered through media outlets such as newspaper, television and radio. An average of 20,000 listeners were reached through public radio programs.

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**1510 Sustainable Agricultural Production Systems: Animal Production Systems**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of animal production systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$11,126,685	\$6,101,667	\$887,633	\$3,600,000	\$0	\$537,385	58.42

**Expected Results:**

Conduct research and education programs to: Improve the production efficiency of confined animal systems; Improve grazing management practices for increased efficiency of production; Improve marketing of grazing livestock; Protect water quality in and running off from pastures; Provide information on current and emerging specialty animal industries; Increase awareness of the impact of herd health and reproduction on economic efficiency. Support the development of niche markets for beef, dairy, and poultry producers to allow farmers to diversify their operations and make local products available to S.C. citizens. Develop and implement animal production systems that are economically sustainable and environmentally sound. Provide training that will increase herd management skills and assist producers in making informed business decisions.

**Outcome Measures:**

Develop and deliver education programs on sustainable animal production systems for agricultural producers, Extension and other agency personnel. Share research discoveries of new production processes and procedures through disclosures, patents, licenses, and publications. Research makes it possible for beef producers in SC to increase efficiency 3% per year through improvements in breeding and genetics, management practices and forage systems. There were 12,879 participants in programs. Applications were made for 2 patents and 1 license.

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**1511 Natural Resources and Environmental Research and Education: Urban wildlife**

Conducts statewide research and education programs to create and maintain ecologically significant habitats (including waterways and forests) in and around urban areas as traditional wildlife habitats are lost. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$84,828	\$0	\$76,270	\$0	\$0	\$8,558	2.40

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**Expected Results:**

Examine urban wildlife planning issues from the macro level (regions, states, counties, and cities) to the individual site. Educate involved stakeholders on the diverse issues and concerns involved in attracting and/or managing wildlife in urban and suburban areas. Encourage community and governmental leaders to plan for urban wildlife green spaces and waterways as part of a national effort. Assist in the development and implementation of urban wildlife plans and models for municipalities and developers, including green spaces, waterways and forests.

**Outcome Measures:**

Develop and deliver education programs on urban wildlife management for landowners, homeowners, nuisance wildlife control operators, natural resource professionals and Extension agents. 15 programs reaching 327 individuals were presented.

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Development &  
Natural Resources**1512 Growth and Population Research and Education**

Conducts applied research and education on population growth and its impact on urban planning and land use in coastal South Carolina. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$7,821	\$0	\$4,351	\$0	\$0	\$3,470	0.20

**Expected Results:**

Address the growing information needs of the resource management and planning community through spatial technology products. Create visual products that enhance environmental knowledge, social science and policy education. Make complex spatial analysis understandable to a wider audience and transfer this information via the Internet and network resources.

**Outcome Measures:**

Present information to coastal non-governmental organizations on how to utilize growth model results in coastal policy discussions. Present information to coastal county planners on how to incorporate the coastal growth model into comprehensive planning. Develop an analysis model for the SC Association of Counties on the fiscal impact of residential expansion. Conduct an analysis of growth patterns in the southern portion of the I-85 corridor. Transfer the models to other locations. Integrate the models into economic assessment applications. As a result of study findings, 1 county and 2 SC cities have altered or adopted residential growth plans and taxation programs.

**Agency Activity Inventory**  
**by Agency**  
**Appropriation Period: FY 2007-08**

**Agency:** P20 - Clemson PSA

**Functional Group:** Economic  
 Development &  
 Natural Resources

**1513 Community and Economic Affairs Research and Education**

Conducts applied research and education in public policy areas to promote discussion and action on critical economic development issues facing South Carolina, the Southeast and the nation. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$106,976	\$0	\$27,624	\$0	\$0	\$79,352	1.12

**Expected Results:**

Address local, state and regional and international policy issues through research. Provide information about emerging and current issues to policy makers and citizens, including information on data and data sources. Promote the discussion of policy options. Prepare reports and present workshops profiling South Carolina communities. Develop and provide methodologies for community enhancement and development. Conduct studies and make presentations on government finance, annexation, consolidation, tax policy, fiscal impact issues, economic development policy, planning, infrastructure investment, community planning and nature-based tourism. Provide expertise by participation in local, state, and regional initiatives.

**Outcome Measures:**

Develop and deliver education programs to community, nonprofit, and civic organizations throughout the state and region on emerging demographic and economic trends. Work in collaboration with the Palmetto Institute as the lead partner for the assessment of the state's tax burden. Participate on commissions, boards and task forces within South Carolina. Present information on public policy, community development and economic trends via state-wide public radio (an average of 20,000 listeners). Highlight S.C. communities via public radio/TV shows. 4 Research reports on taxation and revenue were produced.

**Agency:** P20 - Clemson PSA

**Functional Group:** Economic  
 Development &  
 Natural Resources

**1514 Sustainable Agricultural Production Systems: Agronomic Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of agronomic crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Agency Activity Inventory**  
**by Agency**  
**Appropriation Period: FY 2007-08**

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$9,563,978	\$7,833,395	\$1,005,250	\$0	\$0	\$725,333	97.56

**Expected Results:**

Conduct research and education programs to: Improve profitability of agronomic cropping systems; Reduce negative environmental impacts of agronomic cropping systems; Encourage adoption of new agronomic production systems; Encourage adoption of alternative methods of nutrient and pest management; Explore potential agricultural crops for use as biofuels.

**Outcome Measures:**

Develop and deliver education programs on agronomic crop production for agricultural producers, Extension and other agency personnel. Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications. 8,282 participants were in training in this activity. Approximately 59,000 acres of peanuts are currently in production as a high-value alternative crop, up from 10,000 acres in the base year of 2003. Research projects on soybean rust reduced required sprays from 400,000 acres to 100,000 acres. Research is ongoing to control insects and nematodes that are significant threats to economic crops, to enhance small grain varieties and cotton fiber yield, to develop precision irrigation that can reduce costs and conserve water, to identify abiotic and biotic stresses on soybeans, and to support development of a new flax production industry.

**Agency:** P20 - Clemson PSA

**Functional Group:** Economic  
Development &  
Natural Resources

**1515 Household and Structural Pest Control and Pesticide Training**

Clemson PSA is the sole source for statewide pesticide safety education and training of pest control professionals. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**FY 2007-08**

<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>Supp. Funds</b>	<b>CRF</b>	<b>Other Funds</b>	<b>FTEs</b>
\$651,263	\$386,727	\$173,033	\$0	\$0	\$91,503	8.50

**Expected Results:**

Conduct statewide education programs to identify, prevent and correct health and structural problems related to household pests and wood-destroying organisms in the home and work environment through training and education. Provide pesticide training programs for S.C. applicators (private and commercial) to protect applicators, the general public and the environment from misuse of pesticides.

**Agency Activity Inventory**  
**by Agency**  
**Appropriation Period: FY 2007-08**

**Outcome Measures:**

Pest control professionals, building owners, agricultural growers/producers and landscape maintenance professionals will be trained in safe methods to reduce damage by insects and other pests. 587 pest control professionals and agricultural growers/producers were trained for certification and periodic recertification as required by state and federal regulations. 990 other participants received activity related training.

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**AGENCY TOTALS**

*Clemson PSA*

<b>TOTAL AGENCY FUNDS</b>	<b>TOTAL GENERAL FUNDS</b>	<b>TOTAL FEDERAL FUNDS</b>	<b>TOTAL OTHER FUNDS</b>
\$77,871,075	\$50,619,437	\$13,279,878	\$10,271,760
	<b>TOTAL SUPPLEMENTAL FUNDS</b>	<b>TOTAL CAPITAL RESERVE FUNDS</b>	<b>TOTAL FTEs</b>
	\$3,700,000	\$0	867.95